

WILLYS-OVERLAND HAS A NEW MODEL

Details of Five-Passenger Car Likely to Prove Surprise to Buyers.

By HARRY WARD.

While automobile manufacturers and dealers throughout the country have known for some time that the Willys-Overland Company was about to bring out a smaller model, in addition to the model 30 during the coming season, the detailed information concerning the new model is likely to surprise many prospective buyers.

The new Overland production is to be known as model 31, and will be a five-passenger touring car, electrically lighted and started, with high-tension magneto and four-inch tires. The 20-horsepower motor has single cast cylinders of the L head type, with water jackets integral. The cylinders have a bore of four inches and a stroke of four and one-half inches. Inlet and exhaust valves located on the same side, are actuated directly from below.

Streamline Design.

The body is of the fashionable streamline design. The radiator shell, consisting of a single stamping, joins its curve admirably to the gradual slope of the engine hood and cowl. Attention is by high tension magneto. Proper lubrication under all conditions of service is provided by a rotary gear pump. The oil distribution is so arranged that all four cylinders receive a uniform supply, even when the car is ascending steep hills. The power is transmitted to the gear shaft by a leather faced cone clutch. Small semi-pressed studs, which are placed at intervals under the clutch facing, use the leather slightly in spots, assuring easy and gradual engagement. The axle construction is of the floating type, the wheels being mounted directly to the axle tubes and carried on flexible roller bearing set in direct line with the spokes of the wheels. The axle shaft is easily removable.

Thermo-Syphon Cooling.

The motor is cooled by an efficient thermo-syphon system, which makes the speed of the water circulation independent of the speed of the motor but exact proportion to the amount of heat developed by the motor. The steering wheel is located on the left side, with the gear changing and emergency brake levers in the center. The foot accelerator is within easy reach of the driver's right foot. An interlocking self starter button prevents the starting of the motor by accident.

Joseph M. Stoddard, of the Cook & Stoddard Company, is in Detroit looking over the 1915 eight-cylinder Cadillac that is just being put on the market. He will return Monday with full details of the new model.

E. B. Richardson, of the Empire Tire Company, was among the week's visitors on automobile row.

"In line with the policy of maintaining only the best equipment for producing Hupmobiles, the Hup Motor Car Company has recently made a large addition to the factory in the form of a dynamometer test department," said M. Dow, of the Crescent Motor Company, who recently returned from a visit to the factory. "The dynamometer test," he continued, "is a mechanical apparatus used for testing the motor under all conditions of road work. Formerly the method of testing, as is the practice in most motor companies, was to turn the chassis over to a tester to drive it around in any shape or manner he sees fit."

Now, in a test of this kind, where the car is turned over to a mechanic, the personal element of the driver enters very strongly into the results obtained. For instance, a certain car that one mechanic may say is in perfect shape, might be turned down by another man. You can plainly see where matters of this kind are left to one's own judgment, there will be a difference of opinion between the employer and employee.

"With the dynamometer, the exact opposite is the case. Each motor and chassis is tested under the eye of an expert."

Miller Bros report the sale of Ford cars to the following: Touring cars, J. H. Cather, C. A. Muddiman & Co., Sallie Richards, George L. Clubb, D. J. Jones, John S. Chaney, William Gass, George Hardy, M. H. Wentworth, J. H. Carter, B. L. Buck, Louis Griffith, W. S. Skinner, Marion C. Murphy, O. B. Tomp, D. C. Murphy, J. W. Carr, S. F. Haisdell, John Spaulding, A. C. Warren, H. H. Saascer, Dr. William J. Mallory, Rev. A. M. Mark, W. E. Dentinger, L. P. Williamson, Frank Loman, M. M. Parker Lodge No. 27, Carl V. Carlson, J. H. Carter, Alice G. Edmonston, Mr. Paer, John Sam, H. Hickam, Jr., Mrs. Amanda Burch, Mrs. B. Nicholson, H. Black, Dr. Dyson, F. D. Stuart, J. E. Gibson, S. E. Brown, W. S. O'Rear, H. C. Linton, E. Lemley, H. Howes, Sanders & Hoge, Runabout to Mrs. C. H. Purcell. Delivery wagons to M. Goldenberg (three), Edna J. Stellan, J. Kann, Sons & Co. (three), Hecht &

"LEARN YOUR CAR," ADVICE TO OWNERS

Fewer Repairs Would Be Necessary If Study Were Given Fundamentals.

According to one of the best posted automobile drivers in Washington, there would be fewer motor car repair shops and a great deal of pleasure added to motoring if the owners of cars would study the mechanical operation and the fundamental principles of a gasoline motor.

The majority of owners of automobiles, he claims, know absolutely nothing about them except to drive them and supply gasoline, water, and oil, and often the latter is not used until something goes wrong and the repair man finds that the owner has forgotten to put any in the crankcase. Instruction in all systems of electric starting and lighting, different makes of motors and finished cars with which to drive, is needed, as well as practical experience in timing of motor, adjusting of carburetors, valve tappets, scraping in bearings, grinding valves, adjusting magnetos, starting systems, and the like, according to the motorist in question. "Learn your car first," is the slogan he advocates.

Lieutenant Commander Thomas Richardson Kurtz, U. S. N., is the latest purchaser of a Studebaker touring car. The Commercial Automobile and Supply Company also reports the sale of a Studebaker delivery car to George M. Oyster, Jr.

Purchases of Metz foredoor cars this week, as reported by the Cartercar Sales Company, include Joseph V. Robinson, F. E. Parker, and J. P. Pace, of Esmont, Va.

The Smith-Trew Motor Company reports the sale of a Reo touring car to William H. Leimbach.

The Crescent Motor Company this week sold Hupmobiles to G. M. Gibbs, B. M. Pierce, and A. R. Elmore.

A. S. Fisher, of the Studebaker Corporation, is spending the week-end with the Commercial Automobile and Supply Company.

The third week in October will bring with it another of the annual sales conventions of the Firestone Tire and Rubber Company. Over 200 men will be called in from the firing line, which extends from coast to coast and into many foreign countries. It is expected that a number of foreign representatives will be at the convention.

Fred Crebbin, Jr., factory manager of the Hupmobile Motor Truck Company, New York, was in Washington this week attending the opening of bids for furnishing three motor buses for use on the Islands of Panama.

Touring Popular,
Is Report of A. A. A.

Fall touring is exceedingly popular, according to reports reaching the touring bureau of the American Automobile Association in this city.

It is pointed out that at this time of the year the trunk roads are in as good or better condition than in any other season, particularly as the principal road work in process in the spring and summer is largely completed.

For the information of Washington motorists, the three A's announce that recent developments on the route from Roanoke, Va., through Bristol and Knoxville to Chattanooga give the assurance that this line will be open for travel with few handicaps early in December.

We could not purchase nor produce with more precaution and precision. This new car is as fine and as finished internally as it is externally.

This newest Overland has the genuine fashionable stream-line body design. Its snappy, superb and stylish lines are the work of our master designers.

The body color is Brewster green—always so rich and attractive. It is neatly trimmed with fine hair-line striping of pure ivory white.

The electric starting and electric lighting equipment is one of the most reliable and best established on the market.

Orders are now being taken for immediate delivery.

The Harper-Overland Company, Distributors
The Willys-Overland Company Toledo, Ohio

Two-passenger Roadster, \$795
Delivery Wagon with closed body, \$895

Delivery Wagon with open body, \$850
The larger four-cylinder Overland Touring Car, \$1075

35 H. P. four-passenger Coupe, \$1600
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Wisconsin Tour Is Old-Fashioned Kind

An automobile tour of the old-fashioned sort, in which stock cars only were permitted to compete, in which observers rigidly scrutinized the work of the cars from start to finish, in which the close was followed by the most rigid sort of technical examination—has just been given by the Wisconsin State Automobile Association.

The event was the first in several seasons in which the strict grade rules of the American Automobile Association applied, and created unusual interest among motoring writers and others who have lamented the absence of intimate data regarding car performance.

derived from recent tours in which promptness in arrival at controls was almost the only qualification of success, and in which non-stock cars were entered without restriction.

The tour consumed three days and covered a course of about 200 miles, starting and finishing at Milwaukee. The cup winner, a Studebaker "four," driven by E. S. Schunk, finished with a perfect road score, having made every control on time, and brought in a record of absolutely no attention to any mechanical part from start to finish.

Perhaps the most interesting feature was the technical examination which followed the finish. Skilled men gave a careful and intimate combing to each of the contesting cars. They measured, shook joints and tested every nut and bolt. They made each car undergo a standard test of clutch and brakes. Whenever the least symptom of looseness was found, a point or more was deducted from the car's score.

There were instances of deficient brakes, sagged springs, miscellaneous small parts lost on the road, and loose nuts and bolts. One car was carrying a loose body, and another finished with a cracked water jacket. All the cars suffered from penalties, some of the instances totaling over 100 points.

It was in this test that the winning Studebaker showed to advantage. After prying and pulling at hundreds of places the officials found an insignificant oil cup and two top bolts which could be turned with the fingers. In every other detail the car was beyond criticism.

Alkali Water Is Bad
For Automobile Use

Alkali water in a storage battery soon will show its bad effects. The lights will burn dimly and the cranking motor turn over too slowly to start the engine. Concentrated acid poured into the cells soon will start trouble. Follow instructions of the manufacturer and use only distilled water or filtered rain water.

Should Watch Batteries.

Automobile owners will find that it pays to keep a watchful eye on both the starting and lighting batteries and see that they are given the needed attention.

Italian Composer Buys
American Motorcycle

Giacomo Puccini, the Italian composer, has purchased an American motorcycle from an agency in Italy.

It is also said the Prince di Udina, a member of the royal family, is now an enthusiastic motorcyclist, and that he rides an American machine.

Want "Footballers."

LONDON, Sept. 18.—The following notice is posted in the recruiting office in Stirling: "To footballers: Grand international match; 100,000 players wanted. You can sign on here."

Clubmen Will Tell How
They Got Out of Europe

Senators, Congressmen, departmental officials, a few college presidents, and others will participate in an "experience meeting" to be held at the University Club this evening. The experience to be related will be on the subject of "How We Got Out of Europe."

Each experience will be "brief and well worth while," according to announcements issued by Claude N. Bennett, chairman of the entertainment committee of the club. The meeting will start promptly at 8 o'clock.



(Model 31)

Electrically Lighted and Started

The unexpected!

An Overland—electrically started, electrically lighted, stream-line body, powerful, large five-passenger touring car—priced at only \$850.

This is the first car of its size, capacity, power and electrical equipment to sell below \$1000!

Certainly never before has such big and exceptional value, at such an unusually low price, been offered.

Though the price is lower than ever, the quality is maintained throughout. All materials, metals and workmanship are of the very best.

We could not purchase nor produce with more precaution and precision. This new car is as fine and as finished internally as it is externally.

This newest Overland has the genuine fashionable stream-line body design. Its snappy, superb and stylish lines are the work of our master designers.

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There is also a high tension magneto which is independent of the starting and lighting system and requires no dry cells.

This car rides just like it looks—beautifully. The new, long, improved underslung rear springs give maximum riding comfort. No jolting or jarring on the road—just absolute ease and smoothness at all times.

Tires are 33 inch x 4 inch all around. Never before has a car at this price come equipped with such large tires.

It seats five adults comfortably, without crowding. It is a big, spacious five-passenger touring car.

It has the famous Overland 30 h. p. motor of remarkable strength, speed, durability and economy, developing more power than you will ever require.

With left-hand drive, center control, 33" x 4" tires, demountable rims (with one extra) electric horn, side, dash and tail lights, electric horn, top, top cover, robe rail, speedometer and ventilating, rain-vision type windshield, this car at this price is destined to be known as the greatest motor car achievement of the season.

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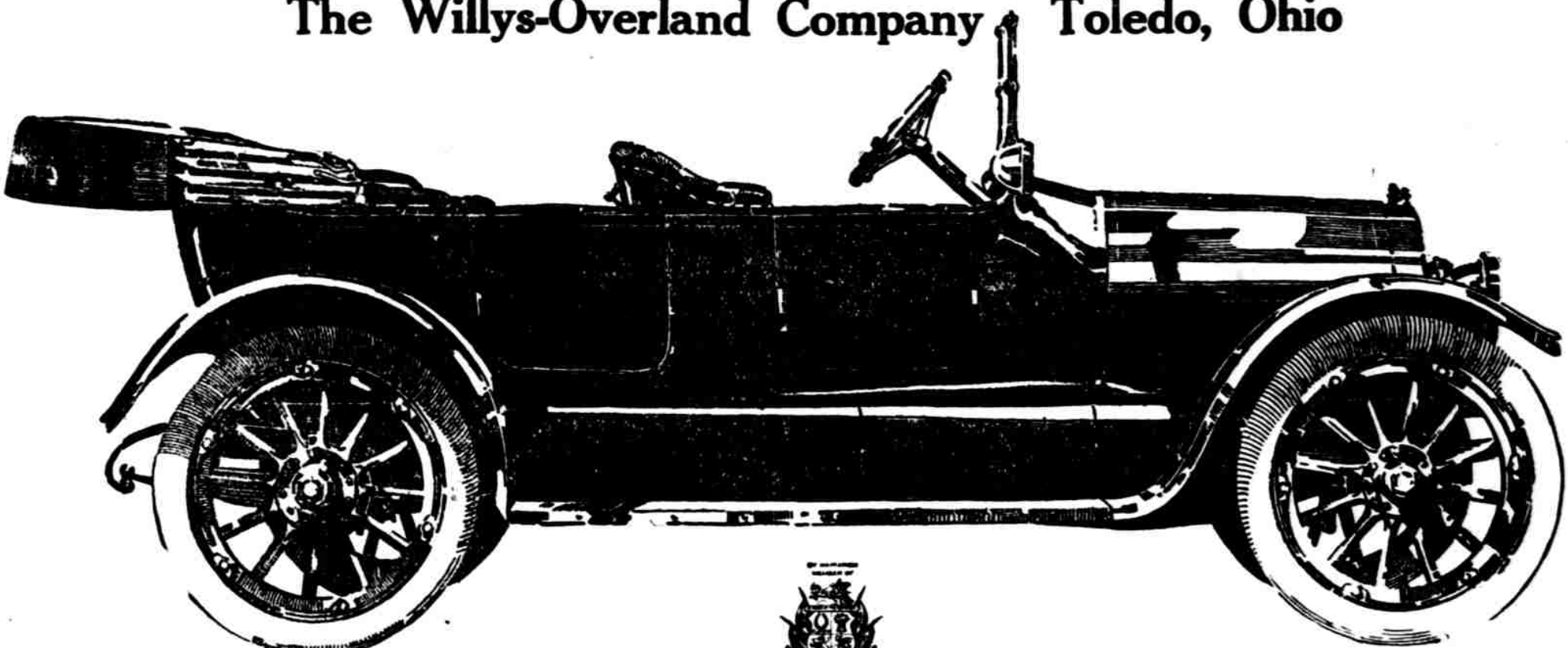
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Following are a few of the many high grade features—features that are usually found on cars costing considerably more money.

- 30 H. P. motor
- Stream-line body
- Ample room for five passengers
- Electrically started
- Electrically lighted
- Electric horn
- High-tension magneto
- All electric switches on instrument board of cowl dash
- Ventilating, rain-vision type windshield
- High-grade upholstery
- Thermo-syphon cooling
- Five bearing crankshaft
- Rear axle; floating type
- Rear springs; extra long, underslung, 3-4 elliptic
- 106 inch wheelbase
- 33 inch x 4 inch tires
- Demountable rims
- One extra rim
- Left-hand drive
- Center Control
- Body color: Brewster green with ivory white striping
- Complete equipment, including speedometer, robe rail, tools, etc.

1022 Conn. Ave. N.W.
Phone Main 6916



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METZ

You can't do better than to purchase a car with such a record as has been made by the Metz. Here it is: Winner of the Glidden Tour from Minneapolis, Minn., to Glacier National Park in Montana; 1,300 miles over a most difficult course with a perfect score.

Winner of every hill-climbing contest into which it has entered this year.

Runs thirty miles on one gallon of gasoline, 100 miles on a pint of oil, and from 12,000 to 15,000 miles on a set of tires.

IT IS HANDSOME. IT IS EASY TO DRIVE.
MAKE US PROVE IT.

New 1915 Model, \$495.00 Complete.

Phone for Demonstration.

Cartercar Sales Co., Inc.
DISTRIBUTERS

Phone North 1302

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